

1. A vacuum shutdown apparatus for cessation of fuel and air mixture in a carburetor being supplied with fuel from a reservoir, comprising:

a conduit having a first end and a second end;

means for sealed communication of said first end with the fuel storage bowl providing fuel to an air and fuel mixing chamber in at least one carburetor;

a vacuum source;

an atmosphere inlet; and

means for switching communication of said second end of said conduit between a first communication with said atmosphere inlet and a second communication with said vacuum source, whereby fuel flow in said carburetor to said air and fuel mixing chamber substantially ceases when said means for switching communication is in said second communication.

2. The vacuum shutdown apparatus of claim 1 additionally comprising:

said conduit having low point between said first end and said second end; and

means to communicate liquid trapped in said conduit to the atmosphere when said means for switching communication of said second end of said conduit is in said first communication with said atmosphere.

3. The vacuum shutdown apparatus of claim 1 wherein said means for switching communication of said second end of said conduit between a first communication with said atmosphere inlet and a second communication with said vacuum source comprises:

a valve;

said valve communicating in a first sealed engagement with said second end of said conduit;

said valve communicating in a second sealed engagement with said vacuum source;

said valve communicating in a third engagement with the atmosphere;

said valve having a default position communicating said second end of said conduit with said atmosphere; and

said valve switchable to a second position providing a substantially sealed communication between said second end of said conduit and said vacuum source.

4. The vacuum shutdown apparatus of claim 2 wherein said means for switching communication of said second end of said conduit between a first communication with said atmosphere inlet and a second communication with said vacuum source comprises:

a valve;

said valve communicating in a first sealed engagement with said second end of said conduit;

said valve communicating in a second sealed engagement with said vacuum source;

said valve communicating in a third engagement with the atmosphere;

said valve having a default position communicating said second end of said conduit with

said atmosphere; and

said valve switchable to a second position providing a substantially sealed communication between said second end of said conduit and said vacuum source.

5. The vacuum shutdown apparatus of claim 1 wherein said vacuum source comprises:

a tank having a negative air pressure formed therein; and

a tube communicating between said tank and said means for switching communication of said second end of said conduit between a first communication with said atmosphere inlet and a second communication with said vacuum source.

6. The vacuum shutdown apparatus of claim 2 wherein said vacuum source comprises:

a tank having negative air pressure formed therein; and

a tube communicating between said tank and said means for switching communication of said second end of said conduit between a first communication with said atmosphere inlet and a second communication with said vacuum source.

7. The vacuum shutdown apparatus of claim 3 wherein said vacuum source comprises:

a tank having negative air pressure formed therein; and

a tube communicating between said tank and said means for switching communication of said second end of said conduit between a first communication with said atmosphere inlet and a second communication with said vacuum source.

8. The vacuum shutdown apparatus of claim 5 additionally comprising:

a vacuum tube;

a one way valve;

said vacuum tube communicating through said one way valve between said tank and an intake manifold of an engine, said intake manifold having a suction when said engine is operating;

said negative air pressure being formed in said tank by said suction; and

said one way valve preventing gas from entering said tank through said vacuum tube when said suction from said intake manifold ceases thereby maintaining said negative air pressure in said tank when said engine ceases operation.

9. The vacuum shutdown apparatus of claim 6 additionally comprising:

a vacuum tube;

a one way valve;

said vacuum tube communicating through said one way valve between said tank and an intake manifold of an engine, said intake manifold having a suction when said engine is operating;

said negative air pressure being formed in said tank by said suction; and

said one way valve preventing gas from entering said tank through said vacuum tube when said suction from said intake manifold ceases thereby maintaining said negative air pressure in said tank when said engine ceases operation.

10. The vacuum shutdown apparatus of claim 7 additionally comprising:

a vacuum tube;

a one way valve;

said vacuum tube communicating through said one way valve between said tank and an intake manifold of an engine, said intake manifold having a suction when said engine is operating;

said negative air pressure being formed in said tank by said suction; and

said one way valve preventing gas from entering said tank through said vacuum tube when said suction from said intake manifold ceases thereby maintaining said negative air pressure in said tank when said engine ceases operation.

11. A method of shutting down operation of an internal combustion engine being fueled by a carburetor creating an air and fuel mixture and communicating that air fuel mixture to at least one engine cylinder for ignition, comprising:

engaging a first end of tube in a sealed communication with the fuel storage bowl of said carburetor; and

engaging a second end of said tube with a source of negative air pressure to create negative air pressure in said fuel storage bowl to thereby cease fuel flow in said carburetor and shut down said engine.

12. A method of shutting down operation of an internal combustion engine being fueled by a carburetor creating an air and fuel mixture and communicating that air fuel mixture to at least one engine cylinder for ignition, comprising:

engaging a first end of tube in a sealed communication with the fuel storage bowl of said carburetor;

engaging said second end of said tube with a valve switch which communicates said second end of said tube with one of said atmosphere or a source of negative air pressure;

moving said valve switch from a first position wherein said second end of said tube communicates with said atmosphere, to a second position wherein said second end of said tube communicates with said source of negative air pressure to thereby cease fuel flow in said carburetor and shut down said engine.